

274



RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/607,077
Source: OIPG
Date Processed by STIC: 8/4/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - cPAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

Raw Sequence Listing Error Summary

ERROR DETECTED

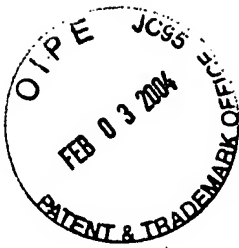
SUGGESTED CORRECTION

SERIAL NUMBER: 10/607,077

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to 3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
(OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
(NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or Artificial Sequence.
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (See 1.823 of Sequence Rules)
- 12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/607,077

DATE: 08/04/2003

TIME: 08:36:37

Input Set : A:\ASHBY.1.DIV.ST25.txt

Output Set: N:\CRF4\08042003\J607077.raw

3 <110> APPLICANT: Ashby, Matthew
5 <120> TITLE OF INVENTION: Methods for the Survey and Genetic Analysis of Populations
7 <130> FILE REFERENCE: ASHBY/1 DIV
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/607,077
C--> 9 <141> CURRENT FILING DATE: 2003-06-25
9 <150> PRIOR APPLICATION NUMBER: US 09/829855
10 <151> PRIOR FILING DATE: 2001-04-10
12 <150> PRIOR APPLICATION NUMBER: PCT/US01/11609
13 <151> PRIOR FILING DATE: 2001-04-10
15 <150> PRIOR APPLICATION NUMBER: US 60/196063
16 <151> PRIOR FILING DATE: 2000-04-10
18 <150> PRIOR APPLICATION NUMBER: US 60/196258
19 <151> PRIOR FILING DATE: 2000-04-11
21 <160> NUMBER OF SEQ ID NOS: 244
23 <170> SOFTWARE: PatentIn version 3.1
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 16
27 <212> TYPE: DNA
28 <213> ORGANISM: unidentified soil organism
30 <400> SEQUENCE: 1
31 acgatgagca ctagct
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 16
36 <212> TYPE: DNA
37 <213> ORGANISM: unidentified soil organism
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40 acgatgagta ctagct
43 <210> SEQ ID NO: 3
44 <211> LENGTH: 16
45 <212> TYPE: DNA
46 <213> ORGANISM: unidentified soil organism
48 <400> SEQUENCE: 3
49 acgatgatga ctagct
52 <210> SEQ ID NO: 4
53 <211> LENGTH: 16
54 <212> TYPE: DNA
55 <213> ORGANISM: unidentified soil organism
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58 acgatggatg ctagct
61 <210> SEQ ID NO: 5
62 <211> LENGTH: 16
63 <212> TYPE: DNA
64 <213> ORGANISM: unidentified soil organism

pp 1-6
Does Not Comply
Corrected Diskette Needed

invalid <213> response
see item 10 on Error Summary sheet

16
16
16
16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/607,077

DATE: 08/04/2003
TIME: 08:36:37

Input Set : A:\ASHBY.1.DIV.ST25.txt
Output Set: N:\CRF4\08042003\J607077.raw

214 <210> SEQ ID NO: 22	
215 <211> LENGTH: 16	
216 <212> TYPE: DNA	
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220 cctgtgtgac gaagct	16
223 <210> SEQ ID NO: 23	
224 <211> LENGTH: 16	
225 <212> TYPE: DNA	
226 <213> ORGANISM: unidentified soil organism	
228 <400> SEQUENCE: 23	
229 ccttggtaac gaagct	16
232 <210> SEQ ID NO: 24	
233 <211> LENGTH: 16	
234 <212> TYPE: DNA	
235 <213> ORGANISM: unidentified soil organism	
237 <400> SEQUENCE: 24	
238 ccttggtacc gaagct	16
241 <210> SEQ ID NO: 25	
242 <211> LENGTH: 16	
243 <212> TYPE: DNA	
244 <213> ORGANISM: unidentified soil organism	
246 <400> SEQUENCE: 25	
247 cgccagtgcc gtagct	16
250 <210> SEQ ID NO: 26	
251 <211> LENGTH: 16	
252 <212> TYPE: DNA	
253 <213> ORGANISM: unidentified soil organism	
255 <400> SEQUENCE: 26	
256 cgcctgtgcc gtagct	16
259 <210> SEQ ID NO: 27	
260 <211> LENGTH: 16	
261 <212> TYPE: DNA	
262 <213> ORGANISM: unidentified soil organism	
264 <400> SEQUENCE: 27	
265 cgtccgtgcc gaagct	16
268 <210> SEQ ID NO: 28	
269 <211> LENGTH: 16	
270 <212> TYPE: DNA	
271 <213> ORGANISM: unidentified soil organism	
273 <400> SEQUENCE: 28	
274 cgtccgtgcc gcagct	16
277 <210> SEQ ID NO: 29	
278 <211> LENGTH: 16	
279 <212> TYPE: DNA	
280 <213> ORGANISM: unidentified soil organism	
282 <400> SEQUENCE: 29	
283 cgtcgtgcc gcagct	16
286 <210> SEQ ID NO: 30	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/607,077

DATE: 08/04/2003
TIME: 08:36:37

Input Set : A:\ASHBY.1.DIV.ST25.txt
Output Set: N:\CRF4\08042003\J607077.raw

287 <211> LENGTH: 16	
288 <212> TYPE: DNA	
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297 <212> TYPE: DNA	
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300 <400> SEQUENCE: 31	16
301 ctcccgtgcc ggagct	
304 <210> SEQ ID NO: 32	
305 <211> LENGTH: 16	
306 <212> TYPE: DNA	
307 <213> ORGANISM: unidentified soil organism	
309 <400> SEQUENCE: 32	16
310 ctccggtgcc gcagct	
313 <210> SEQ ID NO: 33	
314 <211> LENGTH: 16	
315 <212> TYPE: DNA	
316 <213> ORGANISM: unidentified soil organism	
318 <400> SEQUENCE: 33	16
319 ctccgtgcc gaagct	
322 <210> SEQ ID NO: 34	
323 <211> LENGTH: 16	
324 <212> TYPE: DNA	
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331 <210> SEQ ID NO: 35	
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336 <400> SEQUENCE: 35	16
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345 <400> SEQUENCE: 36	16
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350 <211> LENGTH: 16	
351 <212> TYPE: DNA	
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354 <400> SEQUENCE: 37	16
355 ctgtcgtgcc gaagct	
358 <210> SEQ ID NO: 38	
359 <211> LENGTH: 16	

↓
The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

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PATENT APPLICATION: US/10/607,077

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TIME: 08:36:37

Input Set : A:\ASHBY.1.DIV.ST25.txt

Output Set: N:\CRF4\08042003\J607077.raw

214 <210> SEQ ID NO: 22
215 <211> LENGTH: 16
216 <212> TYPE: DNA
217 <213> ORGANISM: unidentified soil organism
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220 cctgtgtgac gaagct 16
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225 <212> TYPE: DNA
226 <213> ORGANISM: unidentified soil organism
228 <400> SEQUENCE: 23
229 ccttggtaac gaagct 16
232 <210> SEQ ID NO: 24
233 <211> LENGTH: 16
234 <212> TYPE: DNA
235 <213> ORGANISM: unidentified soil organism
237 <400> SEQUENCE: 24
238 ccttggtacc gaagct 16
241 <210> SEQ ID NO: 25
242 <211> LENGTH: 16
243 <212> TYPE: DNA
244 <213> ORGANISM: unidentified soil organism
246 <400> SEQUENCE: 25
247 cgccagtgcc gtagct 16
250 <210> SEQ ID NO: 26
251 <211> LENGTH: 16
252 <212> TYPE: DNA
253 <213> ORGANISM: unidentified soil organism
255 <400> SEQUENCE: 26
256 cgccgtgccc gtagct 16
259 <210> SEQ ID NO: 27
260 <211> LENGTH: 16
261 <212> TYPE: DNA
262 <213> ORGANISM: unidentified soil organism
264 <400> SEQUENCE: 27
265 cgtccgtgcc gaagct 16
268 <210> SEQ ID NO: 28
269 <211> LENGTH: 16
270 <212> TYPE: DNA
271 <213> ORGANISM: unidentified soil organism
273 <400> SEQUENCE: 28
274 cgtccgtgcc gcagct 16
277 <210> SEQ ID NO: 29
278 <211> LENGTH: 16
279 <212> TYPE: DNA
280 <213> ORGANISM: unidentified soil organism
282 <400> SEQUENCE: 29
283 cgtcgtgccc gcagct 16
286 <210> SEQ ID NO: 30

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/607,077

DATE: 08/04/2003

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Input Set : A:\ASHBY.1.DIV.ST25.txt

Output Set: N:\CRF4\08042003\J607077.raw

```

287 <211> LENGTH: 16
288 <212> TYPE: DNA
289 <213> ORGANISM: unidentified soil organism
291 <400> SEQUENCE: 30
292 ctcccgtgcc gcagct 16
295 <210> SEQ ID NO: 31
296 <211> LENGTH: 16
297 <212> TYPE: DNA
298 <213> ORGANISM: unidentified soil organism
300 <400> SEQUENCE: 31
301 ctcccgtgcc ggagct 16
304 <210> SEQ ID NO: 32
305 <211> LENGTH: 16
306 <212> TYPE: DNA
307 <213> ORGANISM: unidentified soil organism
309 <400> SEQUENCE: 32
310 ctcccgtgcc gcagct 16
313 <210> SEQ ID NO: 33
314 <211> LENGTH: 16
315 <212> TYPE: DNA
316 <213> ORGANISM: unidentified soil organism
318 <400> SEQUENCE: 33
319 ctccctgtgcc gaagct 16
322 <210> SEQ ID NO: 34
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325 <213> ORGANISM: unidentified soil organism
327 <400> SEQUENCE: 34
328 ctccctgtgcc gcagct 16
331 <210> SEQ ID NO: 35
332 <211> LENGTH: 16
333 <212> TYPE: DNA
334 <213> ORGANISM: unidentified soil organism
336 <400> SEQUENCE: 35
337 ctgccgtgcc gaagct 16
340 <210> SEQ ID NO: 36
341 <211> LENGTH: 16
342 <212> TYPE: DNA
343 <213> ORGANISM: unidentified soil organism
345 <400> SEQUENCE: 36
346 ctgctgtgcc gaagct 16
349 <210> SEQ ID NO: 37
350 <211> LENGTH: 16
351 <212> TYPE: DNA
352 <213> ORGANISM: unidentified soil organism
354 <400> SEQUENCE: 37
355 ctgtcgtgcc gaagct 16
358 <210> SEQ ID NO: 38
359 <211> LENGTH: 16

```

↓
The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/607,077

DATE: 08/04/2003
TIME: 08:36:38

Input Set : A:\ASHBY.1.DIV.ST25.txt
Output Set: N:\CRF4\08042003\J607077.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:155; N Pos. 22
Seq#:156; N Pos. 25
Seq#:157; N Pos. 14,15,16,17,18,19,20,21,22
Seq#:171; N Pos. 11
Seq#:233; Xaa Pos. 8

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/607,077

DATE: 08/04/2003

TIME: 08:36:38

Input Set : A:\ASHBY.1.DIV.ST25.txt

Output Set: N:\CRF4\08042003\J607077.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:155 after pos.:0
L:1585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:156 after pos.:0
L:1603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:157 after pos.:0
L:1735 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:171 after pos.:0
L:2380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:233 after pos.:0